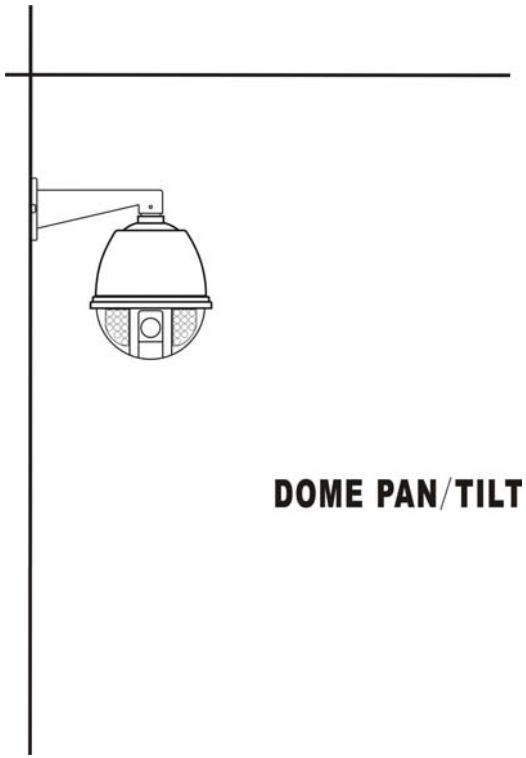
IR DOME PAN TILT



DOME PAN/TILT

USER'S MANUAL

Respect for the users:

Thank you for our products. This product adopts the company of innovation in the design, PAN-TILT structure optimization, and do a lot of testing on a long time, the adjustment to ensure that the product of the superior quality. All our efforts were in order to make our products more stable performance, and can adapt to the majority of customers' requirements. You can make a better use of equipment, please read this manual, if any problem, please inform us or dealers.

Thanks again!

WARNING

Please be sure to selected infrared camera induction
Please follow the instructions strictly

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DC-485R	HDD SYSTEM	TIANDI	DVR
PHILIPS	DVR	JC-4116	HDD SYSTEM
SAMSUNG	DVR	TC-Pelco D	HDD SYSTEM
RD140 (RM110)	DVR	TC-Pelco P	HDD SYSTEM

10、Specification

MODEL	KP-CK63307I	KP-CK63309I
Pan-tilt	7inch	9inch
IR LED	24 850nm LED, effective distance 80m	24 850nm LED, effective distance 120m
IR LED Input Voltage	DC12V 1.5A	
Pan-tilt Input Voltage	24V AC 50/60Hz	
Pan-tilt Input Power	10W	
Can output Voltage	DC12V/500mA	
Lens driving voltage	DC12V/100mA	
Angle	level：0°--355° vertical：0°--90°	
Speed	level：10°/S vertical：5°/S	
limit	level adjustment	
Communication Bus	RS485	
Baud Rate	1200/2400/4800/9600 BPS	
Dimension	150×65×70 mm (V×T×H)	200×75×70 mm (V×T×H)
Temperature	-25℃--49℃	
materials	CoverFlame-retardant ABS or aluminum optical transparent cover: Acrylic	
Weight	3.0Kg	3.5Kg

30	0011110	40	0101000	50	0110010	60	0111100
31	0011111	41	0101001	51	0110011	…	……
32	0100000	42	0101010	52	0110100	…	……
33	0100001	43	0101011	53	0110101	127	1111111
34	0100010	44	0101100	54	0110110	note: 1=ON, 0=OFF	

explain：DIP switch to digital is "OFF"，The corresponding number is 0，Dial "ON"， The corresponding number is 1。

7 DIP switch is address code switch, adopt binary coding, can setting 128 different address code, 9 is low, 3 is high, encode according from low to high

Address calculation method:(Below is the switch "ON" the state of the value in)

switch：	3	4	5	6	7	8	9
value：	64	32	16	8	4	2	1

1, select the mann yards agreement, the address code number starting from 0, the maximum set to 128, which corresponds to the matrix decoder addresses the camera 1 to 0; when the system is used in more than 64 decoder should use the code distributor to achieve expansion.

2, Shanghai Chenova system for all agreements and KODICOM system KRE-301 protocol address encoded as 16 hex mode, the system address is "10", the actual address of the corresponding decoder 16.

3, part of the system, PELCO P / HY protocol address is 1, the software is set to 1, corresponding to the address decoder is set to 2.

9、Auto recognition agreements list:

agreements name	Adaptive System	agreements name	Adaptive System
Pelco D	DVR	ST-832	HDD SYSTEM
Pelco P	DVR	Pelco D WX	HDD SYSTEM
CS850	DVR	HIKVISION	DVR

1、Feature

◆ Special Designed Camera, IR LED Partition Ray System, Without Glisten Phenomenon.

◆ Used the powerful IR LED from Taiwan, Qualified Disperse Heat solution to avoid part warm up.

◆ Constant power supply to ensure the IR LED for long time working.

◆ IR LED Board has the Windy Circle system; Once the LED on, it works.

◆ When long distance watching, the IR field can be adjusted.

◆ Powerful power supply, stable electricity and pressure suitable for long time working.

◆ Double Anti-sunshine structure, weatherproof for out door/ In door using.

◆ Acrylics Optics Housing, No distortion.

2、Attentions:

☆ Don't be installed in the indoor of the equipment exposed to rain or moisture

☆ Don't be put inside the device objects, which could cause a short-circuit and damaged equipment or system；

☆ Avoid installation in flammable and explosive gas or corrosive gas exists；

☆ Don't remove pan-tilt internal components and parts and repair itself；

☆ Don't exceed the environment temperature, humidity standards；

☆ AC24V power supply for pan-tilt, DC12V power supply for infrared lamp, Please confirm by strict specifications, higher than the voltage access the voltage specification access will cause equipment burn。

3、Use and defend maintenance points for attention:

☆ In the repair, replacement or cleaning the product, please cut off power supply。

☆ Supporting power source elicitation line if necessaries lengthen, general the length can not exceed 10 meters , The line footpath can not be lower than 0.5 mm directly ^{2}。

☆ When cleaning, please do not use this product type or spray liquid cleaner, otherwise it will cause short-circuit internal line。

☆ Camera equipment installation, please promptly after fixed camera lens video, and power lines, to prevent pan-tilt rotating process and equipment damage cable pan-tilt。

☆ When installation, please pay attention to protect transparent cover carelessly, such as dirty, with a soft cloth and neuter cleaner cleanness

☆ Installs when the camera and the transparent cover please defer to the arrow to show the direction installment

☆ Installed outside, please support joints and screw in waterproof, prevent water treatment equipment, damage to the equipment into the indoor

⑤JP5: Dial DIP switch to digital is "OFF", The corresponding number is 0, Dial "ON", The corresponding number is 1。Article 1-2 says bps and special agreement, Article 3-9 says decoder board address.

8、Bps and address Set:

1. Special agreements and communication bps Set (Auto identification of initial state of agreement, 2400bps, as000)

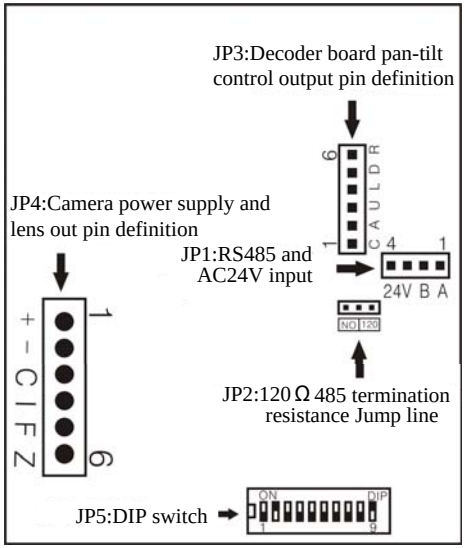
DIP1-2	BPS	agreement	note
00	2400	Auto recognition agreements	Auto identification in more than 20 agreement, auto recognition agreements list
01	4800		
10	9600		

explain: DIP switch to digital is "OFF", The corresponding number is 0, Dial "ON", The corresponding number is 1。

2. address Set (The initial ID: 1, as 000001)

ID	DIP3—9	ID	DIP 3—9	ID	DIP 3—9	ID	DIP 3—9
1	0000001	7	0000111	13	0001101	19	0010011
2	0000010	8	0001000	14	0001110	20	0010100
3	0000011	9	0001001	15	0001111	21	0010101
4	0000100	10	0001010	16	0010000	22	0010110
5	0000101	11	0001011	17	0010001	23	0010111
6	0000110	12	0001100	18	0010010	24	0011000
25	0011001	35	0100011	45	0101101	55	0110111
26	0011010	36	0100100	46	0101110	56	0111000
27	0011011	37	0100101	47	0101111	57	0111001
28	0011100	38	0100110	48	0110000	58	0111010
29	0011101	39	0100111	49	0110001	59	0111011

7、The Built-in Decoder：


JP3:Decoder board pan-tilt control output pin definition
JP4:Camera power supply and lens out pin definition
JP1:RS485 and AC24V input
24V B A
JP2:120Ω 485 termination resistance Jump line
JP5:DIP switch
ON
DIP

①. JP1：RS485 and AC24V input：1P：485 A+；2P：485 B-；3、4P：24VAC input。

②. JP2：120Ω 485 termination resistance Jump line：485 communication in the most distant communication lines between A and B through A 120 Ω load resistance, in order to improve the reliability of communication.

③. JP3：Decoder board pan-tilt control output pin definition：

NO	Cable color	definition	NO	Cable color	definition
1	BLACK	COM	4	YELLOW	LEFT
2	RED	AUTO	5	GREEN	DOWN
3	WHITE	UP	6	BLUE	RIGHT

④. JP4：Camera power supply and lens output pin definition:

NO	definition	NO	definition	NO	definition
1	CAM 12V+	3	LENS (COM)	5	LENS (FOCUS)
2	CAM 12V-	4	LENS (IRIS)	6	LENS (ZOOM)

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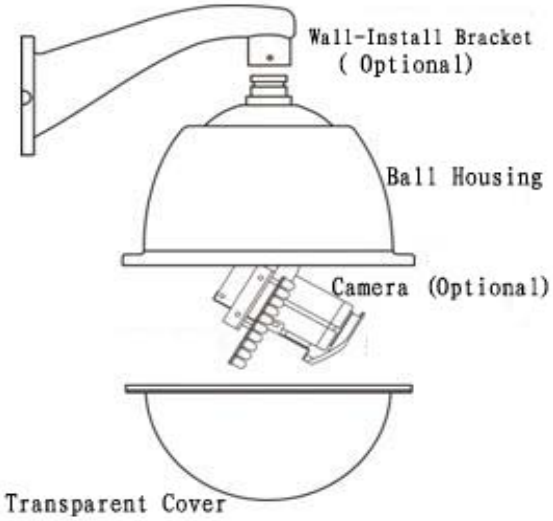
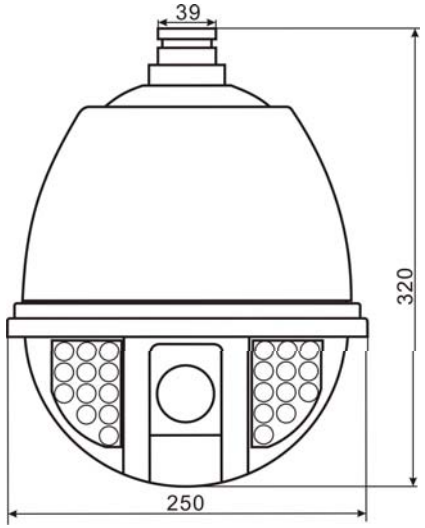
4、Fundamental structure of pan-tilt：



5、Product external form dimension：



6、Assembly：

1. Set up the Bracket, put the cable through the bracket.
2. Connect the Pan-tilt with the bracket, fix the screw to the Ball Housing to make sure waterproof.
3. Connect the Power supply, video, RS 485 and lens controller cable to the Pan-tilt, please refer to the Form 1 and Form 2.
4. Check the IR Middle Speed dome whether works properly, if all is ok, please use the screw to fix the Transparent Cover to the Ball Housing, then installation finished.
5. Pan-tilt Position-limit adjustment

pan-tilt Under may adjust position-limit , general horizontal condition by hand movement, the product already has tuned up when leaving the factory horizontal position-limit, the customer adjusts unnecessarily once again。

Initial value： level：0°－355° **vertical**：0°－90°

When needing to carry out adjustment handle as follows: And then silk loosens the horizontal position-limit piece fastening top , move the position-limit piece when till required location, screwing down is equivalent to silk in being OK again。

Figure 1、Pan-tilt rvvp

NO	1	2	3	4	5	6
Cable color	red	brown	yellow	green	blue	black
definition	up	down	left	right	auto	com

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Figure 2、Iris rvvp

1	2	3	4
gray	white	purple	green
zoom	focus	iris	com

Figure 3、Camera and IR power cord

1	2	3	4
red	black	yellow	green
Cam +	Cam -	IR +	IR -